

NHDOT SPR2 PROGRAM

RESEARCH PROGRESS REPORT

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a progress report at least every three months during the project duration. Reports are due the 5th of the month following the end of the quarter. Please provide a project update even if no work was done during this reporting period.

Project # 26962J		Report Period Year: 2017 <input type="checkbox"/> Q1 (Jan-Mar) <input type="checkbox"/> Q2 (Apr-Jun) <input checked="" type="checkbox"/> Q3 (Jul-Sep) <input type="checkbox"/> Q4 (Oct-Dec)	
Project Title: UAS and Transportation Projects			
Project Investigator: Jarlath O'Neil-Dunne Phone: 802-656-3324		E-mail: joneildu@uvm.edu	
Research Start Date: December 1, 2016	Research End Date: September 30, 2019	Project schedule status: <input type="checkbox"/> On schedule <input checked="" type="checkbox"/> Ahead of schedule <input type="checkbox"/> Behind schedule	

Brief Project Description:

The overall objective of this project is to evaluate UAS technology for a broad range of case studies relating to the specific needs of the New Hampshire Department of Transportation NH DOT). Specifically, this project seeks to:

1. Determine the types of transportation projects for which UAS are best suited for.
2. Evaluate the capabilities and limitations, along with the costs and benefits, of using UAS technology for a variety of transportation projects.
3. Outline the policies, procedures, staffing, and information technology infrastructure required for NH DOT to fully implement UAS technology.
4. Develop NH DOT's UAS capabilities.

Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

- Updated the list of UAS case studies (Task 2).
- Developed UAS mission planning profiles (Task 3).
- Conducted UAS flight operations (Task 4).
- Generated UAS products (Task 5).
- Provide UAS products to NH DOT (Task 6).
- Presented a draft of the implementation assessment (Task 7).
- Started the report (Task 8).

Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc...):

- GIS/IT personnel for discussion on the implementation assessment.

Anticipated research next 3 months:

- UAS mission planning profiles (Task 3).
- UAS operations (Task 4).
- Generate UAS products (Task 5).
- Provide UAS products to NH DOT (Task 6).
- Finalized implementation assessment (Task 7).
- Draft reporting products (Task 8).

Circumstances affecting project: Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and budget, along with recommended solutions to those problems.

None.

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Tasks (from Work Plan)	Planned % Complete	Actual % Complete
Task 1: Establish a stakeholder advisory committee	100%	100%
Task 2: UAS Case Studies	100%	100%
Task 3: UAS Mission Planning Profiles	100%	100%
Task 4: UAS Operations	80%	90%
Task 5: UAS Products	70%	90%
Task 6: Provide UAS Products to NH DOT	50%	90%
Task 7: Implementation Assessment	10%	50%
Task 8: Reporting	0%	20%